

Remarks

The Present Invention and the Pending Claims

This invention relates generally to computer networking, and more particularly to a new method and apparatus for transmitting information (input) signals from a mobile input/output device to a user's primary processing unit such as a desktop PC for processing and then transmitting the processed information (output) signals from the primary processing unit back to the mobile input/output device, thus enabling the user to operate the primary processing unit remotely from the mobile input/output device.

Claims 26-48 are currently pending. Reconsideration and allowance of claims 26-48 is respectfully requested.

Amendments To The Claims

Claims 26, 40, 42, 43, 45, and 48 are currently amended. Support for the amendment is found in paragraphs [0029], [0030], [0032] to [0037], [0039], [0040], [0041], [0042], [0045], [0046], [0047], [0048], and [0049].

The office action states: **"Claims 26-30, 32-41, 43, 45, and 46-48 are rejected under 35 USC 102(b) as being anticipated by Boals et al (US Patent Number 6108727)."**

MPEP section 2131 provides, in pertinent part: "To anticipate a claim, the reference must teach every element of the claim. ...A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference..... The identical invention must be shown in as complete detail as is contained in the ...claim".

Applicant discloses a mobile input/output device for accessing a primary processing unit for information processing and storage, wherein the mobile input/output device can be integrated with one of a cell phone and a personal digital assistant (see

paragraph [0048]). In contrast, Boals does not disclose integrating the wireless interface device with one of a cell phone and a personal digital assistant. Accordingly, Boals does not disclose the following limitation in claim 26:

“wherein the mobile input/output device is integratable with one of a cell phone and a personal digital assistant”.

Also, applicant discloses that the **mobile input/output device cannot process or temporarily store any information**. Instead, the mobile input/output device **receives processed signals from the primary processing unit** and **presents it to** the user of the mobile input/output device as one of an audio output, a visual output, and a combination of audio output and visual output (see paragraphs [0029], [0040] and [0041]). In contrast, Boals discloses a wireless interface device comprising a memory device 111 for storing local software and files in a compressed format (see col. 62, lines 51-67). Moreover, the wireless interface device disclosed by Boals can store files in a compressed format, wherein the stored files can be **decompressed, executed, and stored using a locally resident CPU and memory** (see Boals, FIG.1 and col. 64, lines 20-46). Accordingly, Boals does not disclose the following limitation in claim 26:

“wherein said mobile input/output device cannot process the information and cannot temporarily store the information locally”.

Further, applicant discloses that the mobile input/output device comprises a transceiver for **transmitting and receiving input/output signals over a fixed line public switched telephone network** or a wireless network (see paragraphs [0030], [0035] and [0045]). In contrast, Boals does not disclose establishing communication over a fixed line public switched telephone network. Instead, Boals discloses that “...the transceiver in the wireless interface device communicates with an **access point** by way of a transceiver, which interfaces the wireless interface device with a wired LAN” (see Boals, col. 6, lines 3-21), where, **the access point is a wireless LAN adapter** (see Boals, col. 57, lines 66 and 67 and col. 58, lines 1-27). Accordingly, Boals does not disclose the following limitation in claim 26:

“a transceiver on the mobile input/output device for transmitting said input information at the mobile input/output device to said primary processing unit for processing and receiving electronic signals based on said processed input information from said primary processing unit over a third party communication network, wherein said third party communication network is one of a fixed line network and a wireless network”.

Therefore, applicant respectfully submits that claim 26 is novel over Boals and the rejection of claim 26 be withdrawn.

Claims 27-30, 32-42, 44, and 47 are dependent on claim 26. Since claim 26 is novel over Boals, the applicant respectfully submits that claims 27-30, 32-42, 44, and 47 are also novel over Boals and the rejection of claims 27-47 be withdrawn.

The office action rejected claim 48 under 35 USC §102 in view of Boals. In response, the applicant discloses **compressing** digitized information signals, where the compressed information signals are further converted into electronic signals by the mobile input/output device and transmitted to the primary processing unit (see paragraphs [0033], [0034], and [0037]). Furthermore, applicant discloses **transmitting the cellular packets from the mobile input/output device to the primary processing unit in a secure manner** (see paragraphs [0030], [0032], [0035], and [0036]). Moreover, applicant discloses **decoding the received electronic signals by the primary processing unit** (see paragraph [0039]). In contrast, Boals **does not disclose:**

- **compressing information signals by the wireless interface device before the information signals are transmitted to a remote host computer, and**
- **the remote host computer decodes the received information signals.**

Also, Boals does not disclose transmitting information signals **securely** to the remote host computer. Instead, Boals discloses **transmitting compressed files** to the wireless interface device (see Boals, col. 64, lines 35-40). Accordingly, Boals does not teach the following limitation in claim 48:

“digitizing and compressing said information by said mobile input/output device”,

“converting said digitized and compressed information to a plurality of electronic signals by said mobile input/output device”,

“securely transmitting said electronic signals from [[a]]said mobile input/output device to said primary processing unit over a third party communication network”, and

“receiving and decoding said transmitted electronic signals by said primary processing unit”.

Further, applicant discloses **compressing the audio-visual electronic signals** and converting the compressed audio-visual electronic signals into cellular packets by the primary processing unit, where the **cellular packets are transmitted from the primary processing unit to the mobile input/output device** in a **secure manner** (see paragraphs [0030] and [0032]). Further, applicant discloses that **the mobile input/device receives** the transmitted cellular packets and **decodes the received cellular packets** (see paragraph [0041]). In contrast, Boals does not disclose compressing the audio-visual electronic signals by the remote host computer. Also, Boals does not disclose secure transmission of the cellular packets from the remote host computer to the wireless interface device. Furthermore, the cellular packets are not decoded by the wireless interface once they are received. Accordingly, Boals does not disclose the following limitation in claim 48:

“compressing said audio-visual electronic signals and converting said compressed electronic audio-visual signals into cellular packets for transmission”,

“securely transmitting said cellular packets from the primary processing unit to said mobile input/output device over said third party communication network”, and

“receiving said transmitted cellular packets by the mobile input/output device and decoding said received cellular transmission packets into electronic signals”.

Therefore, applicant respectfully submits that claim 48 is novel over Boals and the rejection of claim 48 be withdrawn.

The office action also states: **“Claims 31, 43, 45, and 46 are rejected under 35 USC 103(a) as being unpatentable over Boals (U.S. Patent Number 6108727) in view of Dowling et al. (U.S. Patent application Number 20030050019).”**

First, Boals in view of Dowling does not teach or suggest all the limitations in claim 26. Applicant discloses a mobile input/output device for accessing a primary processing unit for information processing and storage, wherein **the mobile input/output device can be integrated with one of a cell phone and a personal digital assistant** (see paragraph [0048]). In contrast, Boals does not disclose a mobile input/output device that can be integrated with one of a cell phone and a personal digital assistant. Dowling discloses **use of flexible and retractable peripherals in combination with a mobile unit** comprising a hand held enclosure designed to provide a given look, feel and style to the user. However, Dowling does not disclose independent functioning of flexible retractable devices function with respect to the mobile device. Accordingly, Boals in view of Dowling does not teach or suggest the following limitation in claim 26:

“wherein the mobile input/output device is integratable with one of a cell phone and a personal digital assistant”.

Furthermore, applicant discloses that the **mobile input/output device cannot process information or store the information temporarily**. The mobile input/output device is only capable of receiving processed signals through an onboard transceiver from the primary processing unit and presenting them as an audio-visual display to the user (see paragraph [0029], [0040], and [0041]). In contrast, Boals discloses a wireless interface device **comprising a memory device for storing local software and files in a compressed format** (see col. 62, lines 51-67). Moreover, the wireless interface device disclosed by Boals executes the files stored in compressed format after decompressing the files (see Boals, col. 64, lines 20-46). Also in contrast, Dowling discloses a mobile

unit that can download and store video programs and audio files into memory 115 (see Dowling paragraphs [0038], [0060] and [0063]). Accordingly, Boals in view of Dowling does not teach or suggest the following limitation in claim 26:

“...wherein said mobile input/output device cannot process the information and cannot temporarily store the information locally...”.

Therefore, applicant respectfully submits that claim 26 is not obvious over Boals in view of Dowling.

Applicant also discloses that the **mobile input/output device is a stand-alone** mobile input/output device that is integrated with and is part of either a cell phone or a personal digital assistant (see paragraph [0048]). In contrast, Boals does not disclose a mobile input/output device that can be integrated with a cell phone or a personal digital assistant. Also in contrast, Dowling discloses using a hand-held mobile unit that uses flexible and retractable peripherals for enhancing the functionality of the mobile unit, where the hand-held mobile unit is a computing device (see paragraphs [0039], [0041] and [0047]). Dowling does not disclose **using the flexible and retractable peripherals in the absence of the hand-held mobile unit or vice versa**. Accordingly, Boals in view of Dowling does not teach or suggest the following limitation found in claim 31:

“wherein the mobile input/output device is a stand-alone mobile input/output device integratable with one of said cell phone and said personal digital assistant”.

In summary, Boals in view of Dowling does not teach or suggest the following limitations:

“wherein the mobile input/output device is integratable with one of a cell phone and a personal digital assistant” of claim 26.

“...wherein said mobile input/output device cannot process the information and cannot temporarily store the information locally” of claim 26, and

“wherein the mobile input/output device is a stand-alone mobile input/output device integratable with one of said cell phone and said personal digital assistant” of claim 31.

Claims 31, 43, 45, and 46 are dependent on claim 26. Since claim 26 is not obvious over Boals in view of Dowling, applicant respectfully submits that claims 31, 43, 45, and 46 that are dependent on claim 26 are also not obvious over Boals in view of Dowling, and accordingly the rejection of claims 31, 43, 45, and 46 be withdrawn.

The office action further states: **“Claims 42 and 44 are rejected under 35 USC 103(a) as being unpatentable in view of Boals (U.S. Patent Number 6108727).”**

First, Boals does not teach or suggest all the limitations recited in claims 42 and 44. Applicant discloses a primary processing unit that runs a virtual private communication network host and wherein the mobile input/output device runs a corresponding client and the connectivity between the primary processing unit and the mobile input/output device is maintained through a specifically configured secure private network using one of point-to-point leased private lines and proprietary connectivity software of a wireless carrier. Furthermore, from a common sense perspective of obviousness, the inventive concept at issue is not a mere modification of Boals, or steps that a person of ordinary skill in the art would know how to perform.

Boals does not teach or suggest the following limitations in claims 42 and 44:

“wherein the primary processing unit runs a virtual private communication network host and wherein the mobile input/output device runs a corresponding client” in claim 42, and

“wherein connectivity between the primary processing unit and the mobile input/output device is maintained through a specifically configured secure private network using one of point-to-point leased private lines and proprietary connectivity software of a wireless carrier” in claim 44.

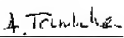
For the reasons stated above, applicant respectfully submits that claims 42 and 44 are not obvious over Boals.

Conclusion

Applicant respectfully requests that a timely Notice of Allowance be issued in this case. If, in the opinion of Examiner Barqadle, a telephone conference would expedite the prosecution of this application, Examiner Barqadle is requested to call the undersigned.

Respectfully submitted,

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